

Yi Zheng

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

4,297

citations

31

h-index

65

g-index

83

ext. papers

5,028

ext. citations

8

avg, IF

5.95

L-index

#	Paper	IF	Citations
82	Pretreatment of lignocellulosic biomass for enhanced biogas production. <i>Progress in Energy and Combustion Science</i> , 2014 , 42, 35-53	33.6	828
81	Overview of microalgal extracellular polymeric substances (EPS) and their applications. <i>Biotechnology Advances</i> , 2016 , 34, 1225-1244	17.8	331
80	Bio-inspired synthesis of metal nanomaterials and applications. <i>Chemical Society Reviews</i> , 2015 , 44, 6330-6345	38.5	317
79	Green synthesis of palladium nanoparticles using broth of Cinnamomum camphora leaf. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1589-1598	2.3	263
78	Evaluation of high solids alkaline pretreatment of rice straw. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 162, 1768-84	3.2	184
77	Lignin-enzyme interaction: Mechanism, mitigation approach, modeling, and research prospects. <i>Biotechnology Advances</i> , 2017 , 35, 466-489	17.8	131
76	Ionic liquid-enhanced immobilization of biosynthesized Au nanoparticles on TS-1 toward efficient catalysts for propylene epoxidation. <i>Journal of Catalysis</i> , 2011 , 283, 192-201	7.3	106
75	Non-ionic surfactants and non-catalytic protein treatment on enzymatic hydrolysis of pretreated Creeping Wild Ryegrass. <i>Applied Biochemistry and Biotechnology</i> , 2008 , 146, 231-48	3.2	98
74	The impact of cell wall carbohydrate composition on the chitosan flocculation of Chlorella. <i>Process Biochemistry</i> , 2011 , 46, 1927-1933	4.8	95
73	Dilute acid pretreatment and fermentation of sugar beet pulp to ethanol. <i>Applied Energy</i> , 2013 , 105, 1-7	10.7	93
72	Plant-mediated synthesis of platinum nanoparticles and its bioreductive mechanism. <i>Journal of Colloid and Interface Science</i> , 2013 , 396, 138-45	9.3	92
71	Exposure to polystyrene nanoplastic leads to inhibition of anaerobic digestion system. <i>Science of the Total Environment</i> , 2018 , 625, 64-70	10.2	85
70	Biosynthesized Bimetallic AuPd Nanoparticles Supported on TiO ₂ for Solvent-Free Oxidation of Benzyl Alcohol. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1752-1759	8.3	85
69	Green synthesis of AuAg alloy nanoparticles using Cacumen platycladi extract. <i>RSC Advances</i> , 2013 , 3, 1878-1884	3.7	85
68	Inhibitory effects of lignin on enzymatic hydrolysis: The role of lignin chemistry and molecular weight. <i>Renewable Energy</i> , 2018 , 123, 664-674	8.1	74
67	Integrating sugar beet pulp storage, hydrolysis and fermentation for fuel ethanol production. <i>Applied Energy</i> , 2012 , 93, 168-175	10.7	73
66	Enzymatic saccharification of dilute acid pretreated saline crops for fermentable sugar production. <i>Applied Energy</i> , 2009 , 86, 2459-2465	10.7	71

65	Biogenic flower-shaped AuPd nanoparticles: synthesis, SERS detection and catalysis towards benzyl alcohol oxidation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1767-1773	13	67
64	Kinetic modeling for enzymatic hydrolysis of pretreated creeping wild ryegrass. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1558-69	4.9	66
63	Plant-Mediated Synthesis of AgPd Alloy Nanoparticles and Their Application as Catalyst toward Selective Hydrogenation. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1212-1218	8.3	60
62	Enhanced catalytic benzene oxidation over a novel waste-derived Ag/eggshell catalyst. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8832-8844	13	59
61	Catalytic benzene oxidation by biogenic Pd nanoparticles over 3D-ordered mesoporous CeO ₂ . <i>Chemical Engineering Journal</i> , 2019 , 362, 41-52	14.7	55
60	Particleboard quality characteristics of saline jost wheatgrass and chemical treatment effect. <i>Bioresource Technology</i> , 2007 , 98, 1304-10	11	49
59	Virus infection of <i>Chlorella variabilis</i> and enzymatic saccharification of algal biomass for bioethanol production. <i>Bioresource Technology</i> , 2013 , 137, 326-31	11	47
58	Effects of ensilage on storage and enzymatic degradability of sugar beet pulp. <i>Bioresource Technology</i> , 2011 , 102, 1489-95	11	44
57	Vapor-Phase Propylene Epoxidation with H ₂ /O ₂ over Bioreduction Au/TS-1 Catalysts: Synthesis, Characterization, and Optimization. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 9019-9026	2.9	44
56	Ensilage and bioconversion of grape pomace into fuel ethanol. <i>Journal of Agricultural and Food Chemistry</i> , 2012 , 60, 11128-34	5.7	43
55	Physical properties of thin particleboard made from saline eucalyptus. <i>Industrial Crops and Products</i> , 2007 , 26, 185-194	5.9	43
54	Properties of medium-density particleboard from saline Athel wood. <i>Industrial Crops and Products</i> , 2006 , 23, 318-326	5.9	40
53	Anaerobic digestion of saline creeping wild ryegrass for biogas production and pretreatment of particleboard material. <i>Bioresource Technology</i> , 2009 , 100, 1582-8	11	38
52	Principles and Development of Lignocellulosic Biomass Pretreatment for Biofuels. <i>Advances in Bioenergy</i> , 2017 , 1-68	3.9	32
51	Investigation of composition, structure and bioactivity of extracellular polymeric substances from original and stress-induced strains of <i>Thraustochytrium striatum</i> . <i>Carbohydrate Polymers</i> , 2018 , 195, 515-524	10.3	29
50	Trisodium Citrate-Assisted Biosynthesis of Silver Nanoflowers by <i>Canarium album</i> Foliar Broths as a Platform for SERS Detection. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 5085-5094	3.9	29
49	Biotransformation of lignin: Mechanisms, applications and future work. <i>Biotechnology Progress</i> , 2020 , 36, e2922	2.8	29
48	Biogenic Pt/CaCO ₃ Nanocomposite as a Robust Catalyst toward Benzene Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 2469-2480	9.5	27

47	Effects of <i>Lactobacillus plantarum</i> additive and temperature on the ensiling quality and microbial community dynamics of cauliflower leaf silages. <i>Bioresource Technology</i> , 2020 , 307, 123238	11	24
46	Polymer-enhanced enzymatic microalgal cell disruption for lipid and sugar recovery. <i>Algal Research</i> , 2016 , 14, 100-108	5	24
45	Effects of pretreatment conditions and postpretreatment washing on ethanol production from dilute acid pretreated rice straw. <i>Biosystems Engineering</i> , 2015 , 137, 36-42	4.8	23
44	Bioelectricity generation from the decolorization of reactive blue 19 by using microbial fuel cell. <i>Journal of Environmental Management</i> , 2019 , 248, 109310	7.9	22
43	Mathematical modeling of the molecular weight distribution of polypropylene produced in a loop reactor. <i>Polymer Engineering and Science</i> , 2007 , 47, 1643-1649	2.3	22
42	Improved methane production of corn straw by the stimulation of calcium peroxide. <i>Energy Conversion and Management</i> , 2018 , 164, 36-41	10.6	21
41	Diatomite Supported Pt Nanoparticles as Efficient Catalyst for Benzene Removal. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14008-14015	3.9	21
40	Template-free synthesis of carbon self-doped ZnO superstructures as efficient support for ultra fine Pd nanoparticles and their catalytic activity towards benzene oxidation. <i>Molecular Catalysis</i> , 2019 , 469, 118-130	3.3	20
39	Investigation of adsorption kinetics and isotherm of cellulase and β -glucosidase on lignocellulosic substrates. <i>Biomass and Bioenergy</i> , 2016 , 91, 1-9	5.3	20
38	Plant-Mediated Synthesis of Zinc Oxide Supported Nickel-Palladium Alloy Catalyst for the Selective Hydrogenation of 1,3-Butadiene. <i>ChemCatChem</i> , 2017 , 9, 870-881	5.2	19
37	Using calcium peroxide (CaO ₂) as a mediator to accelerate tetracycline removal and improve methane production during co-digestion of corn straw and chicken manure. <i>Energy Conversion and Management</i> , 2018 , 172, 588-594	10.6	19
36	Evaluation of different biomass materials as feedstock for fermentable sugar production. <i>Applied Biochemistry and Biotechnology</i> , 2007 , 137-140, 423-35	3.2	17
35	Plant-Mediated Synthesis of Pd Catalysts toward Selective Hydrogenation of 1,3-Butadiene: The Effect of Halide Ions. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 10623-10630	3.9	16
34	Effects of different simulated seasonal temperatures on the fermentation characteristics and microbial community diversities of the maize straw and cabbage waste co-ensiling system. <i>Science of the Total Environment</i> , 2020 , 708, 135113	10.2	15
33	Improved anaerobic digestion efficiency of high-solid sewage sludge by enhanced direct interspecies electron transfer with activated carbon mediator. <i>Bioresource Technology</i> , 2020 , 313, 123648	11	14
32	Improved properties of medium-density particleboard manufactured from saline Creeping Wild Rye and HDPE plastic. <i>Industrial Crops and Products</i> , 2009 , 30, 65-71	5.9	14
31	Harvesting microalgae using the temperature-activated phase transition of thermo-responsive polymers. <i>Algal Research</i> , 2015 , 11, 90-94	5	13
30	Titanium silicalite-1 zeolite encapsulating Au particles as a catalyst for vapor phase propylene epoxidation with H ₂ /O ₂ : a matter of Au ^{III} synergic interaction. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 4428-4436	13	13

29	Pretreatment of lignocellulosic biomass using bioleaching to reduce inorganic elements. <i>Fuel</i> , 2019 , 246, 386-393	7.1	12
28	Influence of moisture content on microbial activity and silage quality during ensilage of food processing residues. <i>Bioprocess and Biosystems Engineering</i> , 2011 , 34, 987-95	3.7	12
27	Investigation on the effects of cultivation conditions, fed-batch operation, and enzymatic hydrolysate of corn stover on the astaxanthin production by <i>Thraustochytrium striatum</i> . <i>Algal Research</i> , 2019 , 39, 101475	5	11
26	Solid-liquid extraction of alkali metals and organic compounds by leaching of food industry residues. <i>Bioresource Technology</i> , 2010 , 101, 4331-6	11	11
25	Bovine serum albumin templated porous CeO ₂ to support Au catalyst for benzene oxidation. <i>Molecular Catalysis</i> , 2020 , 486, 110849	3.3	10
24	Improving the efficiency of enzyme utilization for sugar beet pulp hydrolysis. <i>Bioprocess and Biosystems Engineering</i> , 2012 , 35, 1531-9	3.7	10
23	Comprehensive Study of Cultivation Conditions and Methods on Lipid Accumulation of a Marine Protist, <i>Thraustochytrium striatum</i> . <i>Protist</i> , 2018 , 169, 451-465	2.5	10
22	Integrated alkali pretreatment and preservation of wet lettuce (<i>Pistia stratiotes</i>) by lactic acid bacteria for fermentable sugar production. <i>Biomass and Bioenergy</i> , 2015 , 81, 249-255	5.3	9
21	Enhancing the Enzymatic Saccharification of Grain Stillage by Combining Microwave-Assisted Hydrothermal Irradiation and Fungal Pretreatment. <i>ACS Omega</i> , 2020 , 5, 12603-12614	3.9	9
20	Microalga-induced biocementation of martian regolith simulant: Effects of biogrouting methods and calcium sources. <i>Construction and Building Materials</i> , 2019 , 229, 116885	6.7	7
19	Investigation of dynamic changes of substrate features on enzymatic hydrolysis of lignocellulosic biomass. <i>Industrial Crops and Products</i> , 2018 , 111, 414-421	5.9	7
18	Bioaugmentation of sweet sorghum ensiling with rumen fluid: Fermentation characteristics, chemical composition, microbial community, and enzymatic digestibility of silages. <i>Journal of Cleaner Production</i> , 2021 , 294, 126308	10.3	6
17	Utilization of Distiller's dried grains with solubles: A review. <i>Journal of Agriculture and Food Research</i> , 2021 , 5, 100195	2.6	5
16	Simultaneous depolymerization and fermentation of lignin into value-added products by the marine protist, <i>Thraustochytrium striatum</i> . <i>Algal Research</i> , 2020 , 46, 101773	5	4
15	Degradation of aromatic compounds and lignin by marine protist <i>Thraustochytrium striatum</i> . <i>Process Biochemistry</i> , 2021 , 107, 13-17	4.8	4
14	Black Liquor Valorization by Using Marine Protist <i>Thraustochytrium striatum</i> and the Preliminary Metabolic Mechanism Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 1786-1796	8.3	3
13	Improving anaerobic digestion of corn straw by using solid-state urea pretreatment.. <i>Chemosphere</i> , 2022 , 293, 133559	8.4	3
12	Solid-State KOH Pretreatment of Corn Straw for Anaerobic Digestion: Methane Yield Enhancement, Potassium Flow Analysis, and Preliminary Economic Assessment. <i>Energy & Fuels</i> , 2019 , 33, 11034-11040	4.1	3

11	A Novel Platform for Biouprgrading of Lignin to Valuable Nutraceuticals and Pharmaceuticals 2018 ,		3
10	Understanding the mechanisms behind micro-aeration to enhance anaerobic digestion of corn straw. <i>Fuel</i> , 2022 , 318, 123604	7.1	3
9	Oxygen-Enriched Biomass-Activated Carbon Supported Platinum Nanoparticles as an Efficient and Durable Catalyst for Oxidation in Benzene. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 7255-7266	8.3	2
8	Biobleaching of Sorghum Straw in Bioreactors for Biomass Cleaning. <i>Fermentation</i> , 2021 , 7, 270	4.7	1
7	Biogenic Mn _x O _y as an efficient catalyst in the catalytic abatement of benzene: From kinetic to mathematical modeling. <i>Molecular Catalysis</i> , 2021 , 510, 111643	3.3	1
6	Enzyme production by a fungoid marine protist, <i>Thraustochytrium striatum</i> . <i>European Journal of Protistology</i> , 2018 , 66, 136-148	3.6	1
5	Producing insect protein from food waste digestate via black soldier fly larvae cultivation: A promising choice for digestate disposal. <i>Science of the Total Environment</i> , 2022 , 154654	10.2	1
4	A novel biological treatment of hydrothermal carbonization wastewater by using <i>Thraustochytrium striatum</i> . <i>Process Biochemistry</i> , 2022 , 112, 217-222	4.8	0
3	Optimization of mechanical strength of biocemented Martian regolith simulant soil columns. <i>Construction and Building Materials</i> , 2021 , 125741	6.7	0
2	Aerobic granulation of single culture protist. <i>Process Biochemistry</i> , 2021 , 110, 163-167	4.8	
1	Lignin biorefinery: Lignin source, isolation, characterization, and bioconversion. <i>Advances in Bioenergy</i> , 2022 ,	3.9	